

$$O_{pc} = (100\%) \left[ 1 - \left( 1 - 0.01 O_p \right)^{\cos \beta} P \right], \quad (\text{AM1-14})$$

Where:

$\beta_p$ =lidar elevation or inclination angle,

$O_p$ =measured opacity along path L, and

$O_{pc}$ =corrected opacity for the actual plume thickness P.

The values for  $\beta_p$ ,  $O_p$  and  $O_{pc}$  should be recorded.

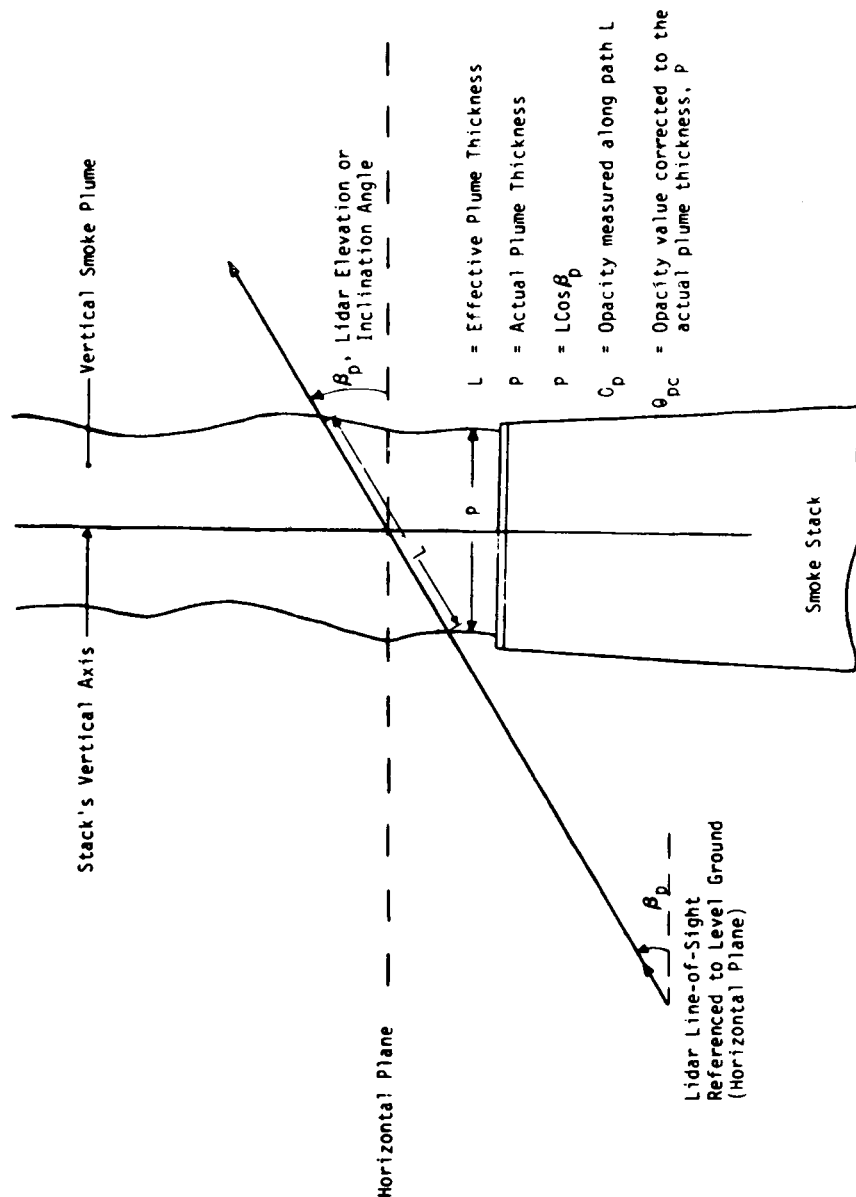


Figure AM1-V. Elevation Angle Correction for Vertical Plumes.

2.6.3 Determination of Actual Plume Opacity. Actual opacity of the plume shall be determined by Equation AM1-15.

$$O_{pa} = O_{pc} - [2 S_o + 5\%]. \quad (\text{AM1-15})$$

2.6.4 Calculation of Average Actual Plume Opacity. The average of the actual plume opacity,  $O_{pa}$ , shall be calculated as the average of the consecutive individual actual opacity values,  $O_{pa}$ , by Equation AM1-16.